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University of California
College of Agriculture
Agricultural Experiment Station
Berkeley, California

SEASONAL LABOR NEEDS FOR CALIFORNIA CROPS

TEHAMA COUNTY

Progress Report No. 52

by

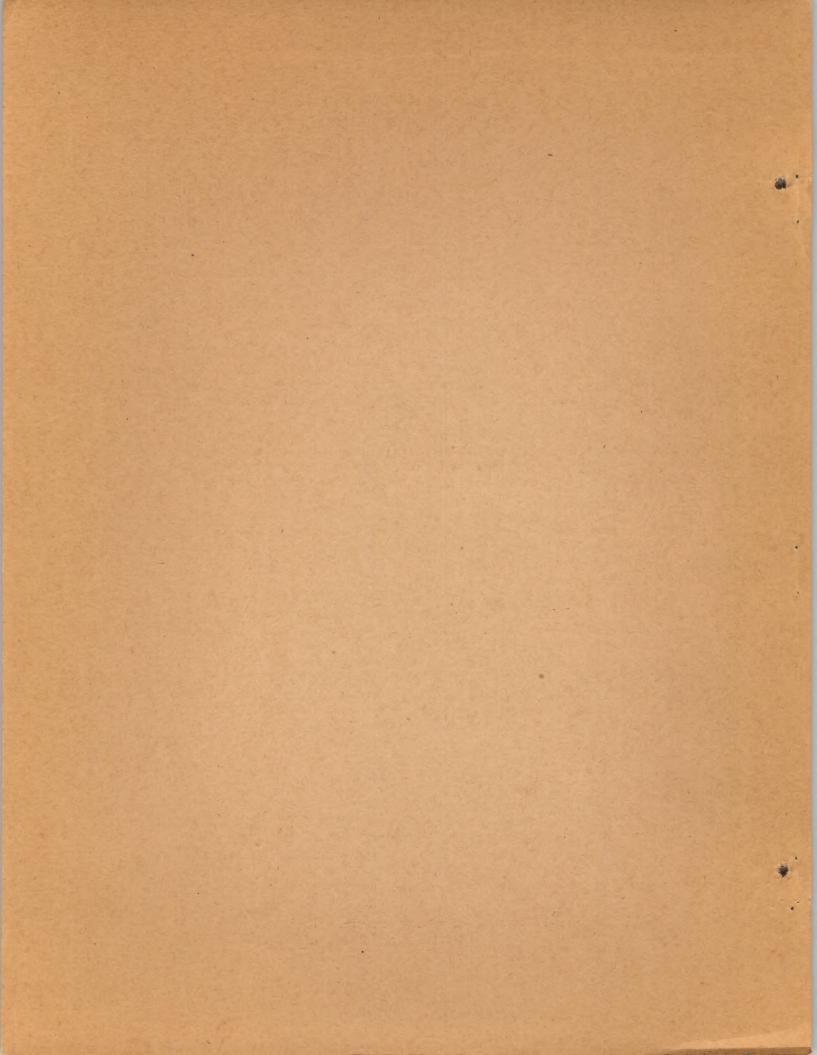
R. L. Adams

Preliminary -- Subject to Correction

December, 1936

Contribution from the Giannini Foundation of Agricultural Economics Mimeographed Report No. 53

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Progress Report No. 52

Seasonal Labor Needs for California Crops

Tehama County

Scope of Presentation -- The following considerations govern the presentation of this progress report:

- 1. The data are confined to the area indicated above.
- 2. The data are confined solely to crops, livestock needs being ignored.
- 3. The findings apply only to occasional or seasonal labor requirements as distinguished from labor contributed by farm operators and by workers employed on a year-round or regular basis of employment.
- 4. Attention is concentrated upon workers required for hand tasks -- planting, thinning, weeding, hoeing, harvesting -- without including teamsters, tractor drivers, irrigators, and shed packers of vegetables and fruits.
- 5. The presentation includes the so-called migratory, transient, or roving workers which comprise an important source of help needed in connection with certain tasks and at "peak" times which seasonally arise in connection with many field, truck, and fruit crops commercially produced in California.
- 6. This report is confined to California's need for seasonal agricultural workers because of the more pressing problems liable to arise in connection therewith. A later study is planned which will deal with other kinds of labor involved in the production of California's many crops.

Brief Description of the Area. Tehama County lies at the northern end of the Sacramento Valley about midway between the Pacific Coast and the Nevada line. The county is enclosed by hills on the eastern, northern, and western boundaries, with the southern boundary being generally level lands or slightly rolling hills. The county extends about 80 miles in length east and west and about 40 in width north and south. The total area of Tehama County is 1,872,000 acres of which 203,956 acres are classified as available for crops by the United States Census of 1935. This is further classified for the crop year 1934 as follows:

	Acreage
Crop land harvested	63,702
Crop failure	1,654
Crop land idle or fallow	20,383
Plowable pasture	118,217
Total land available for crops	203,956

The principal farming area is located in the central part of the county with minor and inconsequential areas along the creek bottoms.

Crops, Acreages, and Production. -- The basis used in calculating occasional or seasonal need for labor, other than that furnished by farm operators and regularly employed workers, appears as table 1.

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Seasonal Labor Moods for California Crops

Tehana Country

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TABLE 1

Basis for Calculating Seasonal Labor Requirements
Tehama County

Crop	Acreage	Production
Field Crops*:		
Alfalfa	5,565	21,094 tons
Grain barley	22,865	457,738 bushels 21,931,000
		pounds
oats	2,650	57,375 bushels 1,833,000 pounds
wheat	6,424	70,003 bushels 4,200,000 pounds
Hay other than alfalfa T	11,023	14,445 tons
Hops	164	1,200 bales of 190 pounds #
Potatoes Irish †	99	13,399 bushels 803,000 pounds
Sorghums for grain	2,098	66,506 bushels 28,650 sacks
Vegetable crops no commercial	acreage report	ed.
Fruit and nut crops:		
Almonds	1,591	954,000 pounds
Apples †	159	
Apricots	824	3,296 tons of which 1,100 tons
		were dried #
Cherries †	82	
Figs Kadota T	115	
others +	152	
Olives	2,082	(2,119 1/2 tons canning \$
		(818 1/2 tons not canning
Noctarines	100	800 tons
Peaches freestones	1,759	15,000 tons of which 7,200 tons
		were dried †
clingstones	236	500 tons
Prunes	3,331	5,000 tons (dry weight) #
Walnuts	245	(144,400 pounds merchantabl
		88 tons (31,600 pounds culls
		(estimated)

^{*} Acreage and production of field crops is from 1935 Census, with the exception of hops.

Drying ratios used in this report are:

Hops -- 4 to 1 Peaches -- 6 to 1
Apricots -- 5 1/2 to 1 Prunes -- 3 to 1

⁺ Use of seasonal labor on these crops inconsequential due to small acreage or production and hence has been ignored.

⁶ Olive production estimated by California Olive Association for 1935.

⁴ Production of merchantable walnuts is from Walnut Control Board -- figure for 1935 crop.

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Tallalio mada gada vali	11,023	16,445 tons
BOOK	184	1,200 below of 190 pounds +
Potatoes Irish T		15,399 bushels - 805,000 pounds
Sorchums for grain	820,5	66,506 bushols 28,660 seeks
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Al conds Apples † Apples † Corries † Figs - Kadota † Others † Noctarines	159 824 82 315 315 25 268 308	5,896 tons of which 1,100 tons were dried * (2,119 1/2 tons consing 6 (818 1/2 tons not consing 6 500 tons
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* Acrosso and production of Field crops is from 1935 Concus, with the

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\$ Olive production estimated by Cultiornia Olive Association for 1956.

A Production of merchantable walnuts is from Johnst Control Board - Figure

Operations Requiring Seasonal Labor and Times of Need. -- Farm operations requiring the use of seasonal or occasional labor for the various crops raised in Tehama County are indicated in table 2. This tabulation does not include the employing of shed workers needed to wash, pack, and prepare various commodities for shipping and marketing.

TABLE 2
Operations Requiring Use of Seasonal Labor and Times of Need by Crops
Tehama County

Crop	Operation	Time of need by month	Per cent of work done by seasonal help	Output per man-day
Field crops: Alfalfa average 6 cuttings	Mowing Raking Shocking	April 15-30 60 per cent of acreage May 90 per cent of acreage June 90 per cent of acreage July 90 per cent of acreage August 90 per cent of acreage September 90 per cent of acreage October 90 per cent of acreage	50	8 acres 15 acres 30 acres
Grain	Baling 60 per cent of tonnage Harvesting	May 1/6 of job June 1/6 of job July 1/6 of job August 1/6 of job September 1/6 of job October 1/6 of job June 15-30 50 per cent		4 tons
barley, oats, and wheat Hops	Pruning, stringing,	of acreage July 1-15 50 per cent of acreage March 1-31 30 per cent of job April 1-30 30 per cent of job	66	6 acres
	Picking	May 1-31 30 per cent of job June 1-15 10 per cent of job August 10-31 2/3 of crop September 1-10 1/3 of crop	100	Total of 12 man- days per acre 200 pounds (green weight)

Coorations Recuiring Seasonni labor and Times of Nord. Farm operations requiring the use of seasonal or occasional labor for the various order reised in Tehama County are indicated in table 2. This tabulation does not include the omploying of shed workers needed to wash, pack, and propare various acceptable for shipring and marketing.

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Table 2 cont	Table 2 continued.							
Crop	Operation	Time of need by month	Per cent of work done by seasonal help	Output per man-day				
Hops (cont.)	Drying	August 10-31 2/3 of crop September 1-10 1/3 of crop	75	4,000 pounds (green				
	Baling	September 10-30	60	weight) 15 bales of 190 pounds net				
Sorghums for grain	Cutting heads (by hand)	September 10 per cent of job		110-0				
	75 per cent of acreage	October 80 per cent of job November 10 per cent	33	0.75 acre				
	Threshing 75 per cent	of job October 75 per cent of job						
	of crop	November 25 per cent of job	} 66 7	100 sacks (13,000 pounds)				
	combine) 25	October 90 per cent of acreage November 10 per cent of acreage	50	5 acres				
Fruit and nut crops:								
Almonds	Pruning	November 50 per cent of acreage December 50 per cent of acreage	50	2 acres				
	Knocking	August 15-31 35 per cent of crop September 1-30 65 per	50	300 pounds				
	Hulling (by machine)	cent of crop August 15-31 35 per cent of crop September 1-30 65 per cent of crop	50	400 pounds				
Apricots	Pruning	November 15-30 1/6 of acreage December 1-31 1/3 of						
		January 1-31 1/3 of acreage February 1-15 1/6 of	80	0.2 acre				
	Brush disposal	acreage December 25 per cent of acreage January 25 per cent						
		of acreage February 25 per cent of acreage March 25 per cent of acreage	50	2.5 acres				

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Crop	Operation	Time of need by month	Per cent of work done by seasonal help	Output per man-day
Apricots (cont.)	Thinning Picking	April 15-31 all of acreage June 20-30 75 per cent	100	1/7 acre
		of crop July 1-15 25 per cent of crop June 20-30 75 per cent	100	1,200 pounds
	Cutting	of job July 1-15 25 per cent of job	100	600 pounds
·	Other dry-yard labor	June 20-30 75 per cent of job July 1-15 25 per cent of job	75	11 man-hou per fresh ton*
Nectarines	Pruning	November 15-30 1/6 of acreage December 1-31 1/3 of		00114
	Brush disposal	acreage January 1-31 1/3 of acreage February 1-28 1/6 of acreage	80	0.2 acre
	brush disposal	December 25 per cent of acreage January 25 per cent of acreage February 25 per cent	50	2.5 acres
	m	of acreage March 25 per cent of acreage		7.40
	Thinning Picking	May 1-31 all of acreage July 1-31 70 per cent of crop	100	1/6 acre
	Packing (on	August 1-15 30 per cent of crop July 1-31 70 per cent	100	1,500 pounds
	farms)	of crop August 1-15 30 per cent of crop	100	125 boxes = 2,000 pounds
Olives	Picking for pickling, etc.	October 1-31 80 per		
	Picking for	cent of job November 1-30 17 per cent of job	85	6 boxes = 210 pounds
	oil	December 1-31 20 per cent of job January 1-31 60 per cent of job	85	450 pounds
		February 1-28 20 per cent of job		

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Table 2 continued.								
Crop	Operation	Time of need by month	Per cent of work done by seasonal help	Output per man-day				
Peaches	Pruning	November 15-30 1/6 of acreage December 1-31 1/3 of acreage January 1-31 1/3 of acreage	80	0.2 acre				
	Brush disposal	February 1-15 1/6 of acreage February 50 per cent of acreage	50	2.5 acres				
	Spraying	March 50 per cent of acreage November once on 3/4 acreage February once on 1/4						
	Thinning	acreage June once on 3/4 acreage May 1-31 all of job	100	1.33 acres				
	Picking freestones	July 20-31 25 per cent of crop August 1-31 75 per cent of crop] 100	00 boxes (3,000 pounds)				
	Cutting for drying freestones	July 20-31 25 per cent of job August 1-31 75 per cent of job	100	1,500 pounds				
	Other dry-yard labor	July 20-31 20 per cent of job August 1-31 80 per cent of job] 100	11 1/2 hours per				
	Packing for shipment freestones	July 20-31 75 per cent of job August 1-5 25 per cent of job	100	fresh ton 80 boxes = 1,600				
Prunes	Picking clingstones Fruning all of acreage	August 1-31 all of crop November 15-30 1/6 of acreage	100	pounds 2,000 pounds				
		December 1-31 1/3 of acreage January 1-31 1/3 of acreage February 1-15 1/6 of acreage	90	60 trees (0.85 acre)				
	Brush disposal	February 50 per cent of acreage March 50 per cent of	90	2.5 acres				
	Picking	september 1-30 all of crop	100	1 ton				

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Table 2 continued.

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Crop	Operation	Time of need by month	Per cent of work done by seasonal help	Output per man-day
Prunes (cont.)	Dipping and drying (by dehydrator) 75 per cent of crop	September 1-30 all of job	66	6 man-hours per fresh ton †
	(by sun) 25 per cent of crop	September 1-30 90 per cent of job October 1-10 10 per cent of job	66	8.3 man- hours per fresh ton
Walnuts	Knocking and hulling (by hand)	October 1-31 all of crop	50	200 pounds

* From Christie, A. W. and I. C. Barnard. The principles and practice of sun-drying fruit. California Agr. Exp. Sta. Bul. 388:40-60. 1925.

† From Christie, A. W., revised by P. F. Nichels. The dehydration of prunes. California Agr. Exp. Sta. Bul. 404:7. 1929.

Findings of Seasonal Labor Needs .-- Details and summary of seasonal labor needs of Tehama County are presented as table 3. The "size of job" are figures drawn from table 1 in terms of either acreage or output in tons, crates, boxes, or whatever unit is commonly used. The "output per man-day" is an average figure for the entire acreage or output figured in packed crates, hampers, or boxes (in case of fruits). If the work is of a nature that requires a crew, different members of which perform different tasks, then the average shown is per man based on the entire crew. Length of day is 8 hours, November to February, 9 hours March to October, unless otherwise stated. Wide variations in output occur between farm and farm, field and field, season and season, because of differences in soil types, climatic conditions, weeds, yields, and other factors influencing the amount of work that a laborer can perform in a given day. Moreover the basis of output is a mature experienced male worker, without reference to use of women, children, and more or less inexperienced help that is sometimes used in connection with certain of the tasks requiring use of seasonal workers. The column headed "available days" reflects (a) limitations set from the period within which the work must be performed because of the nature of the task, such as transplanting, thinning, weeding, and cutting, and (b) available days as determined by weather conditions, inclement weather reducing the number of days when a required task can be performed. The "required number of individuals" is given in terms of workers as noted above in connection with "output per man-day."

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TABLE 3

Seasonal Labor Needs -- Tehama County -- by Months and Tasks

January	Apricots: Pruning Brush burning	Size of task 220 acres†	Output per man-day	man-days	days	workers*
		220 screet				
	Brush hurning		0.2 acre	1,100	17	65
		103 acres†	2.5 acres	42	17	3
]	Nectarines: Pruning	27 acres †	0.2 acre	135	17	8
	Brush disposal	12 acres †	2.5 acres	5	17	1
	Olives: Picking for oil	417 tons T	450.0 pounds	1,854	17	110
J	Peaches: Pruning	532 acres†	0.2 acre	2,660	17	157
1	Prunes: Pruning	999 acrest	0.85 acre	1,176	17	70
	Totals			€,972	17	411 man-months 7
February /	Apricots: Pruning	110 acres	0.2 acre	550	9	62 (Feb. 1-15)
	Brush disposal	103 acres	2.5 acres	42	18	3
1	Nectarines: Pruning	13 acres	0.2 acre	65	18	4
	Brush disposal	13 acres T	2.5 acres	6	18	1
	Olives: Picking for oil	139 tons †	450.0 pounds	618	18	35
F	Peaches: Pruning	266 acrest	0.2 acre	1,330	. 9	148 (Feb. 1-15)
	Brush disposal	499 acrest	2.5 acres	200	18	12
	Spraying	332 acres T	1.33 acres	250	18	14
F	Prunes: Pruning	500 acres +	0.85 acre	589	9	66 (Feb. 1-15)
	Brush disposal	1,499 acrest	2.5 acres	600	18	34
	Totals			4,250	18	237 man-months
March H	Hops: Pruning, stringing,		\$	507	7.0	7.0
	and training	164 acres		591	19	32
	Apricots: Brush disposal	103 acres T	2.5 acres	42	19	3
	Nectarines: Brush disposal	13 acres	2.5 acres	6	19	1
	Peaches: Brush disposal	499 acres †	2.5 acres	200	19	11
P	Prunes: Brush disposal	1,499 acrest	2.5 acres	600	19	32
	Totals			1,439	19	76 man-months
April A	Alfalfa: Mowing	1,670 acres +		209	11	19 (April 15-30)
	Raking	1,670 acres +		112	11	11 (April 15-30)
	Shocking	1,670 acres +	30.0 acres	56	11	6 (April 15-30)

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	continued.			Required	Available	Required number of
Month	Crop and task	Size of task	Output per man-day	man-days	days	workers*
III O LI OLI						
April	Hops: Pruning, stringing, and					
(cont.)	training	164 acres	6	591	21	29
(001100)	Apricots: Thinning	824 acres	1/7 acre	5,768	11	525 (April 15-30)
	Totals			6,736	21	321 man-months
May	Alfalfa: Mowing	2,504 acres +	8.0 acres	313	22	15
incog	Raking	2,504 acres +	15.0 acres	167	22	8
	Shocking	2,504 acres †	30.0 acres	84	22	4
	Baling	1,055 tons +	4.0 tons	264	22	12
	Hops: Pruning, stringing, and	2,000 00115	7.00			
	training	164 acres	4	591	22	27
	Nectarines: Thinning	100 acres	1/6 acre	600	22	28
	Peaches: Thinning	1.995 acres	1/6 acre	11.970	22	543
	Totals	1,990 20165	1/0 2010	13,989	22	636 man-months
June	Alfalfa: Mowing	2,504 acres †	8.0 acres	313	25	13
June	Raking	2,504 acres +	15.0 acres	167	25	7
	Shocking	2,504 acres +	30.0 acres	84	25	4
		1,055 tons †	4.0 tons	264	25	11
	Baling (with combine)		I .	1,757	13	136 (June 15-30)
	Grain: Harvesting (with combine)	10,540 acres 1	0.0 acres	1,101	10	100 (0 and 10 00)
	Hops: Pruning, stringing, and	164 acres	\$	197	13	16 (June 1-15)
	training		1,200.0 pounds	4,120	9	458 (June 20-30)
	Apricots: Picking	2,472 tons		2,750	9	306 (June 20-30)
	Cutting	825 tons	600.0 pounds	755	9	84 (June 20-30)
	Other dry-yard labor	619 tons T	A	750	25	30
	Peaches: Spraying	997 acres+	1.33 acres	11,157	25	447 man-months
7.3	Totals	0.504			26	13
July	Alfalfa: Mowing		8.0 acres	313	26	7
	Raking	2,504 acres T	15.0 acres	167		4
	Shocking	2,504 acres †	30.0 acres	84	26	4
	Baling	1,055 tons †	4.0 tons	264	26	11
	Grain: Harvesting (with combine)		6.0 acres	1,757	13	136 (July 1-15)
	Apricots: Picking	824 tons	1,200.0 pounds	1,374	13	107 (July 1-15)
	Cutting	275 tons	600.0 pounds	917	13	71 (July 1-15)
	Other dry-yard labor	206 tons †	FI	252	13	20 (July 1-15)
	Nectarines: Picking	560 tons	1,500.0 pounds	747	26	29
	Packing (on farms)	560 tons	1.0 ton	560	26	22

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Table 3 c	continued.			Required	Arroilable	Required number of
			2	_	days	workers*
Month	Crop and task	Size of task	Output per man-day	man-days	days	WOIREIS
		7 850 4	7 000 0	2,500	9	278 (July 20-31)
July	Peaches freestones: Picking	3,750 tons	3,000.0 pounds	2,400	9	267 (July 20-31)
(cont.)	Cutting (for drying)	1,800 tons	1,500.0 pounds		9	184 (July 20-31)
	Other dry-yard labor	1,440 tons	9	1,656 7,313	9	813 (July 20-31)
	Packing (for shipment)	5,850 tons	1,600.0 pounds	20,304	26	781 man-months
	Totals	0.504	0.0	313	26	13
August	Alfalfa: Mowing		8.0 acres	167	26	7
	Raking		15.0 acres	84	26	Δ
	Shocking		30.0 acres	264	26	11
	Baling	1,055 tons +		1	17	179 (Aug. 10-31)
	Hops: Picking	608,000 pounds		3,040	17	7 (Aug. 10-31)
	Drying		4,000.0 pounds //	114	13	43 (Aug. 15-31)
	Almonds: Knocking	166,950 pounds		557	1	33 (Aug. 15-31)
	Hulling (by machine)	166,950 pounds		418	13	25 (Aug. 1-15)
	Nectarines: Picking	240 tons	1,500 pounds	320	13	19 (Aug. 1-15)
	Packing (on farms)	240 tons	1.0 ton	240	13	289
	Peaches freestones: Picking	11,250 tons	3,000.0 pounds	7,500	26	278
	Cutting (for drying)	5,400 tons	1,500 pounds	7,200	26	
	Other dry-yard labor	5,760 tons	4	6,621	26	255
	Packing (for shipment)	1,950 tons	1,600.0 pounds	2,438	4	610 (Aug. 1-5)
	clingstones: Picking	500 tons	1.0 ton	500	26	20
	Totals			29,776	26	1,146 man-months
September	Alfalfa: Mowing		8.0 acres	313	25	13
	Raking	2,504 acres t	15.0 acres	167	25	7
	Shocking	2,504 acres †	30.0 acres	84	25	4
	Baling		4.0 tons	264	25	11
4	Hops: Picking	304,000 pounds	200.0 pounds #	1,520	8	190 (Sept. 1-10)
	Drying	228,000 pounds	4,000.0 pounds #	57	8	8 (Sept. 1-10)
	Baling		15.0 bales	48	17	3 (Sept. 10-30)
	Sorghums for grain: Cutting					
	heads (by hand)	52 acres t	0.75 acre	70	25	3
	Almonds: Knocking	310,050 pounds	300.0 pounds	1,034	25	42
	Hulling (by machine)	310,050 pounds	400.0 pounds	776	25	32
	Olives: Picking for pickling	51 tons †	210.0 pounds	486	9	54 (Sept. 20-30)
	Prunes: Picking	15,000 tons	1.0 ton	15,000	25	600
	Dipping and drying (by					
	dehydrator)	7.425 tons +	H H	4,950 2,026	25 25	198
	Dipping and drying (by sun)	7,425 tons † 2,228 tons +	4		25	82

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Table 3 continued.

Table 3	continued.			Required	Arrail abla	Required number of
				_		workers*
Month	Crop and task	Size of task	Output per man-day	man-days	days	WOLKELS
September						3 070
(cont.)	Totals			26,795	25	1,072 man-months
October	Alfalfa: Mowing	2,504 acrest	8.0 acres	313	20	16
0000001	Raking	2,504 acres†	15.0 acres	167	20	9
	Shocking	2,504 acrest	30.0 acres	84	20	5
	Baling	1,055 tons †	4.0 tons	264	20	14
	Sorghums for grain: Cutting	2,000				
		420 acres T	0.75 acre	560	20	28
	heads (by hand)	10,636 sackst	100 sacks	107	20	6
	Threshing	237 acres †	5.0 acres	48	20	3
	Harvesting (with combine)	1,374 tonst	210.0 pounds	13,086	20	655
	Olives: Picking for pickling		A pounds	225	7	33 (Oct. 1-10)
	Prunes: Dipping and sun-drying	247 tons +	π	220		
	Walnuts: Knocking and hulling		000 0	440	20	22
	(by hand)	44 tons t	200.0 pounds	15,294	20	765 man-months
	Totals			15,294	20	. 00
November	Sorghums for grain: Cutting			70	21	4
	heads (by hand)	52 acres t	0.75 acre	70	21	2
	Threshing	3,546 sackst	100 sacks	36	21	1
	Harvesting (with combine)	26 acres T	.5.0 acres	6		10
	Almonds: Pruning	398 acres t	2.0 acres	199	21	55 (Nov. 15-30)
	Apricots: Pruning	110 acrest	0.2 acre	550	10	
	Nectarines: Pruning	13 acres 7	0.2 acre	65	10	7 (Nov. 15-30)
	Olives: Pickling	292 tons +	210.0 pounds	2,781	21	133
	Peaches: Pruning	266 acrest	0.2 acre	1,330	10	133 (Nov. 15-30)
	Spraying Spraying	997 acres†	1.33 acres	750	21	36
	Prunes: Pruning	500 acres t	0.85 acre	589	10	59 (Nov. 15-30)
		300 40100		6,376	21	304 man-months
	Totals	398 acres t	2.0 acres	199	16	13
December	Almonds: Pruning	220 acres t	0.2 acre	1,100	16	70
	Apricots: Pruning			42	16	3
	Brush disposal	103 acres +	2.5 acres	135	16	9
	Nectarines: Pruning	27 acres t	0.2 acre	5	16	1
	Brush disposal	12 acres †	2.5 acres	618	16	39
	Olives: Picking for oil	139 tons †	450.0 pounds	2,660	16	167
	Peaches: Pruning	532 acres +	0.2 acre	2,000	10	101
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Table 3 continued. Available Required number of Required workers* days Output per man-day man-days Size of task Crop and task Month 74 16 0.85 acre 1.176 999 acrest Prunes: Pruning December 371 man-months 16 5,935 Totals (cont.)

- * On a monthly basis unless otherwise noted.
- + Portion of task performed by seasonal help.
- It should be noted that this figure, rather than representing the total number of individuals required, represents the number of man-months of labor required and is derived by dividing the number of man-days of labor by the average number of days available for work during the month.
- A total of 12 man-days per acre is required for pruning, stringing, and training of hops which is divided approximately as follows: March, April, and May, 3.6 man-days per acre, per month, and June 1-15, 1.2 man-days per acre.

The Dry-yard labor, other than cutting, estimated to be as follows:

Apricots -- 11 man-hours per fresh ton.

Peaches -- 11.5 man-hours per fresh ton.

Prunes (with dehydrator) -- 6 man-hours per fresh ton.

Prunes (sun drying) -- 8.3 man-hours per fresh ton.

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* On a monthly brais unless other as noted:

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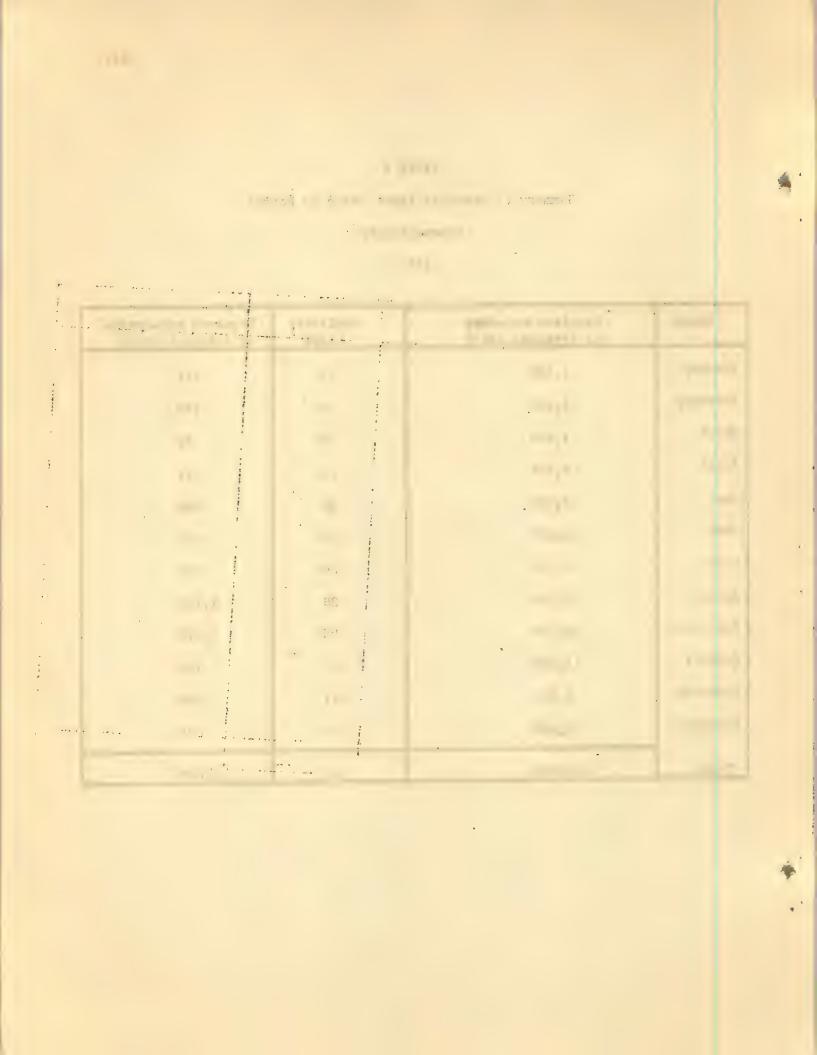
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TABLE 4
Summary of Seasonal Labor Needs by Months
Tehama County

1935

Month	Required man-days of seasonal labor	Available .days	Required man-months of seasonal labor
January	6,972	17	411
February	4,250	18	237
March	1,439	19	76
April	6,736	21	321
May	13,989	22	636
June	11,157	25	447
July	20,304	26	781
August	29,776	26	1,146
September	26,795	25	1,072
October	15,294	20	765
November	6,376	21	304
December	5,935	16	371
Total	149,023	See See	6,567

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Notes

Notes on Table 2.-- Data concerning "time of need" as shown in this table break down required seasonal labor into the period in which the work is performed in order to permit a subsequent determination of labor needs by months (table 3). Some operations are performed only to a limited extent with seasonal labor. For instance, only about 50 per cent of the labor in putting up alfalfa is done by seasonal workers. When a job extends over several different months, the proportionate amount for each month is shown.

The amount of work done each month is based on the cropping system followed during 1935. The allotting of amounts of work is based on findings concerning local farm practices, and required time to "make" a crop resulting from inquiry of producers, and records of carlot shipments, the latter proving helpful in fixing dates of planting and of subsequent tasks involved in producing certain crops. Proportionate amounts of output harvested each month were determined from data of local practices with respect to harvesting, and from carlot shipments of perishable products. Records of truck shipments were also used when available.

Notes on Table 3.-- Table 3 is the condensed summary of labor needs as worked out for Tehama County as a result of findings pertinent to 1935. The data are presented by months with the tasks which were performed in each month indicated by both crop and task. The size of the job was calculated from the data appearing in table 1 (acreage and production) and table 2 (task, time of performance, and percentage of work pertinent to a given month). The output per man-day was calculated as indicated in the foreword presenting table 3. The number of required man-days is a result of dividing the size of task by output per man-day. The available days for the different tasks involve two variables. The first is the number of days when field work is possible because of favorable weather conditions. The basis for this column was determined from a study of the monthly weather charts of the United States Weather Eureau for the years 1933, 1934 and 1935. These data indicated available days per month as follows (based on a 26-day working month without allowance for holidays):

Month	Available days	Length of work day	Month	Available days	Length of work day
January February March April May June	17 18 19 21 22 25	hours 8 8 9 9 9	July August September October November December	26 26 25 20 21 16	hours 9 9 9 9 9 8 8

Source of data: Based on precipitation records of the Red Bluff station of the United States Weather Bureau for the years 1933, 1934, and 1935.

The second factor influencing the number of available days was the size of the job. If the output was only a few cars, then the number of days was limited to the time needed to get out those cars efficiently. If a field operation had to be performed in a period less than the number of available days in the month, then the specific number of days was noted. These restrictions are shown in parentheses. For example, in July the picking of peaches is limited to the last 10 days of the month.

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The totals of table 3 show the total required man-days of needed seasonal labor, the available days for field work during the month, and the necessary number of men (as defined in the opening paragraph of table 3) required on a monthly basis to care for the tasks ordinarily performed by seasonal workers.

Tehama County is devoted less to annual crops, the nature of which makes possible marked changes in acreage from year to year, than are many counties. However, findings as set forth in this report are bound to fluctuate materially from year to year because of variable seasonal conditions affecting yields, time of performing operations, and available days; and because of harvesting operations on certain crops being speeded up to supply a good market, or retarded to avoid a poor one, resulting in marked variations in the need for harvest labor. In addition, although a good deal of the agriculture of the county is not of an annual nature, market outlook would have some effect upon what and how much acreage is planted, and thus have an effect upon the demand for seasonal labor.

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